AMSAT News Service Weekly Bulletins
Issue: ANS-269
Date: 2021-09-26
Sources: amsat-ans-2021-ans-269-weekly-hyperkitty-d62f4c91cc.txt

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AMSAT NEWS SERVICE
ANS-269

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

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ANS-269 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2021 Sept 26

Virtual AMSAT Space Symposium and Annual General Meeting - Oct. 30, 2021

Due to the lingering effects of the COVID-19 pandemic, AMSAT has changed plans for its 39th Annual Symposium and General Meeting from an in-person event to a virtual event.

This is a chance for "Amateur Radio in Space" enthusiasts from all corners of the globe to learn more about AMSAT's Strategic Plan, GOLF program, CubeSat Simulator and other exciting developments taking place in the amateur satellite world.

AMSAT will host its 2021 AMSAT Virtual Space Symposium and Annual General Meeting on Zoom for its members on Saturday, October 30th from 9:00am CDT –

5:00pm CDT (UTC-5). The event will be a combination of pre-recorded video segments along with live question and answer sessions.

Registration for members is required and is available on AMSAT's Member Portal, launch.amsat.org. Registration is free and registered attendees will receive a digital copy of the AMSAT Symposium Proceedings, entered into the Symposium prize drawings, and be able to participate in discussions during each question and answer session.

The 2021 AMSAT Virtual Space Symposium and Annual General Meeting will be available to the general public on AMSAT's YouTube channel, https://youtu.be/RTvcceM7Tz0 at no cost.

Final papers for the Symposium Proceedings must be submitted by October 18, 2021 to Dan Schultz, N8FGV, n8fgv at usa dot net. Symposium presentations should be limited to 15 minutes of pre- recorded video. Video presentations must be submitted by October 18, 2021 to Paul Stoetzer, N8HM, n8hm at arrl dot net. We ask that presenters be available to take questions via Zoom following the airing of their pre-recorded video.

Tentative Schedule

9:00am CDT - Opening Remarks
9:15am CDT – 2:00 pm CDT - General Presentations
2:00pm CDT – 3:00 pm CDT - AMSAT Education / CubeSat Simulator
3:00pm CDT – 4:00 pm CDT - AMSAT Engineering
4:00pm CDT – 5:00 pm CDT - 2020 AMSAT Annual General Meeting

Questions regarding the Symposium can be directed to info at amsat dot org.

[ANS thanks the Symposium organizers for the above information]

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[ANS thanks Christophe Mercier, Président AMSAT-Francophone, for the above information]

Temporary Shutdown of AO-92 and FalconSat-3

AO-92 has started to change its behavior after a number of weeks powered on. In particular, the IHU has come back on and switched to safe mode. This is likely due to low voltage during eclipse when it should be drawing very little if no one uses it.

N8MH also reports that he is turning off FalconSat's transmitter for a while due to low voltage.

The AMSAT Ops team is going to shut both down for a while in hopes they will recover.

AO-91 still seems to be ok!

[ANS thanks Burns Fisher, WB1FJ, AMSAT Engineering Team, for the above information]

ARISS Seeks Hosts for Ham Radio Contacts with Space Station Crew

Starting on October 1, Amateur Radio on the International Space Station (ARISS) will accept applications from US schools, museums, science centers, and community youth organizations — individually or working together — interested in hosting amateur radio contacts with crew members on the International Space Station (ISS). Contacts will be scheduled between July 1 and December 31, 2022. Crew scheduling and ISS orbits will determine the exact contact dates. ARISS is looking for organizations that will draw a sizeable number of participants and integrate the contact into a well-developed education plan.

The deadline to submit is November 24. Proposal information and more details, including expectations, proposal guidelines, and a proposal form are on the ARISS-US website. An ARISS introductory webinar session will be on October 7 at 8 PM ET (2400 UTC). Sign up via Eventbrite.

Each year, ARISS provides tens of thousands of students with opportunities to learn about space technologies and communications through amateur radio. Crew members aboard the International Space Station (ISS) will participate in scheduled amateur radio contacts. These contacts are approximately 10 minutes long and allow students to interact with the astronaut through a question-and-answer session.

The program offers learning opportunities by connecting students to orbiting astronauts through a partnership that includes ARRL, AMSAT, and NASA, as well as other amateur radio organizations, and space agencies in Russia, Canada, Japan, and Europe. The program’s goal is to inspire students to pursue interests and careers in science, technology, engineering, and mathematics (STEM) and Amateur Radio.

“Educators overwhelmingly report that student participation in the ARISS program stimulates interest in STEM subjects and in STEM careers,” ARISS said in announcing the contact opportunities. ARISS says enthusiasm sparked by a school contact also may lead to an interest in ham radio among students and to the creation of ham radio clubs in schools. Some educators have even become radio amateurs after experiencing a contact with an ISS crew member.

ARISS is celebrating 20 years of continuous amateur radio operations on the ISS. Contact ARISS-US for additional information.

[ANS thanks ARISS and ARRL for the above information]

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JAMSAT has announced the following FO-29 operation schedule for October 2021. The satellite will be switched on while over Japan on the following dates and times (UTC). The transponder will remain on until the satellite's low voltage safety trigger shuts it down. Thus, the transponder may or may not be active by the time the satellite is over North America or other areas of the globe.

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 2 00:40- 10:58- 12:42- 23:45-
 3 10:00- 11:45-
 8 23:30-
 9 09:48- 11:33-
10 00:20- 10:38- 12:23-
16 00:05- 10:23- 12:07- 23:10-
17 11:14- 12:57-
23 00:41- 10:58- 23:45-
24 10:03- 11:48-
29 23:31-
30 09:47- 11:33-
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Source: https://www.jarl.org/Japanese/3_Fuji/fuji3-202108.htm

[ANS thanks Hideo Kambayashi, JH3XCU, for the above information]

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2022. At the time of his return, Vande Hei will have set the record for the longest single spaceflight for an American. Novitskiy, Shipenko, and Peresild are scheduled to return to Earth in October aboard the Soyuz MS-18 spacecraft.

[ANS thanks NASA for the above information]

ARISS NEWS

Amateurs and others around the world may listen in on contacts between amateurs operating in schools and allowing students to interact with astronauts and cosmonauts aboard the International Space Station. The downlink frequency on which to listen is 145.800 MHz worldwide.

A contact was successfully completed on Tuesday, Sept. 21 at 18:05z between astronaut Akihiko Hoshide, KE5DNI, and Children’s National Hospital, Washington, DC, via a multi-point telebridge through IK1SLD. Congratulations to the Children’s National Hospital students and Akihiko!

Another contact was successfully completed on Friday, Sept. 24 at 10:43z between astronaut Akihiko Hoshide, KE5DNI, and SPDW Voortrekker Movement, Oranjeville, South Africa, direct via ZS9SPD. Congratulations to the SPDW Voortrekker Movement students and Akihiko!

A contact is scheduled for Monday, 2021-09-27 at 08:55z with Amur State University, Blagoveshchensk, Russia, direct via TBD. The ISS callsign is presently scheduled to be RSØISS, and the scheduled Cosmonaut is Pyotr Dubrov.

A contact is scheduled for Saturday, 2021-10-02 at 12:40z with Lycée Pierre Paul Riquet, St Orens De Gameville, France and CSUT University Space Center of Toulouse, Toulouse, France. This will be a multi-point telebridge via IK1SLD. The ISS callsign is presently TBD, and the scheduled astronaut is Thomas Pesquet, KG5FYG.

The latest information on the operation mode can be found at https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

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expects to be on LEO Linear and FM sats throughout the weekend will try to announce pass info on Twitter @2m0sql

Please submit any additions or corrections to Ke0pbr (at) gmail.com

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT will host its 2021 AMSAT Virtual Space Symposium and Annual General Meeting on Zoom for its members on Saturday, October 30 from 9:00am CDT – 5:00pm CDT (UTC-5). [See complete article above.]

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

AMSAT Exhibit at 2021 Radio Expo
Sunday, September 26, 2021
Boone County Fairgrounds
Belvidere, Illinois
http://www.chicagofmclub.org/

2021 Wyoming ARRL Section Convention
Saturday, October 9, 2021
Event Center at Archer
3921 Archer Pkwy
Cheyenne, Wyoming 82007
https://wyhamcon.org/site

[ANS thanks Paul Overn, KE0PBR, AMSAT Events page manager, for the above information]

Satellite Shorts From All Over

+ Peter Goodhall, 2M0SQL, in IO87jp, and Dana Rushton, VE1VOX, in FN85ii set a new QSO Distance Record for UVSQ-SAT of 4,224 km Sept. 12, 2021 at 13:22z. Also, Bernd Scholer, DL6IAN, in JN49gb90, and Joe Werth, KE9AJ, in EN50fn57, set a new AO-7 Mode A QSO Distance Record of 7,248 km on Sept. 17, 2021 at 17:44z. Congratulations! (ANS thanks Dana Rushton, VE1VOX, and Peter Goodhall, 2M0SQL, for the above information)

+ NASA invites learners of all ages, including students and teachers who recently returned to the classroom environment, to register for a special event ahead of the upcoming launch of the James Webb Space Telescope. Webb STEAM Day: A Learning Journey Together is a virtual, interactive event that will take place from 9:30 a.m. to 5:30 p.m. EDT on Thursday, Sept. 30. Register at: https://go.nasa.gov/WebbSTEAMDay (ANS thanks NASA for the above information)

+ Three Chinese astronauts safely returned to Earth on Friday, Sept. 17 after completing the first crewed mission aboard the Tianhe space station module. Commander Nie Haisheng, Liu Boming and Tang Hongbo touched down inside the designated landing zone near Dongfeng in the Gobi Desert, Inner Mongolia, at around 05:34z. The Beijing Aerospace Flight Control Center declared the Shenzhou-12 a “complete success.” (ANS thanks SpaceNews.com for the above information)

+ UK stations must have Electromagnetic Field (EMF) assessments in place

for operation above 110 MHz from 18th November 2021. Some RSGB guidance on EMF is here: https://rsgb.org/main/technical/emc/emf-exposure/ (ANS thanks AMSAT-UK for the above information)

+ The head of NASA’s space operations division said this week an unpiloted test flight of Boeing’s Starliner crew capsule to the International Space Station, delayed from August by valve problems, will likely not launch until next year. Boeing’s Starliner test flight was supposed to launch last month to the International Space Station on a final demonstration of the crew capsule before it flies with astronauts. But managers scrubbed a launch attempt Aug. 3 after some of the valves inside the Starliner service module failed to open during a pre-flight checkout. (ANS thanks SpaceFlightNow.com for the above information)

+ A SpaceX Dragon cargo resupply spacecraft filled with more than 4,600 pounds of supplies and valuable scientific experiments bound for NASA’s Space Station Processing Facility is set to leave the International Space Station on Thursday, Sept. 30. NASA Television, the agency’s website, and the NASA app will broadcast the spacecraft’s departure live, beginning at 12:45z (8:45 a.m. EDT). (ANS thanks NASA for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Mark Johns, K0JM
k0jm at amsat dot org